ESS[®] Expandable Sand-Screen System

Reliable Sand Control and Cost Savings

MORE PRODUCTION, FASTER ROI, REDUCED CO2

From the leader in trusted, sand-screen expertise, the field-proven ESS screens manage particulates that hinder production and damage downhole and surface equipment. This exclusive solution enhances production and efficiency with its simplified deployment and expansion technology delivering faster, greater ROIs as well as reduced CO2 emissions. ESS screens are ideal for challenging reservoirs with non-uniform or poorly consolidated formations where problematic sands can result in sand-control-equipment failure, productivity decline, and premature well abandonment.

Once expanded, this system mitigates the risk of sand production through removal of the screen-to-formation annulus while stabilizing the near-wellbore formation. This provides added borehole support and sand exclusion without gravel filtration. ESS expandable sand screens are part of a modular, expandable completion-system designed for maximizing reservoir productivity and minimizing OPEX. Sand screen sections are selectively deployed to control transfer of reservoir solids to the wellbore, optimizing productivity, reliability, and efficiency.

PRODUCE MORE, RISK LESS

MAXIMIZE PRODUCTIVITY AND MINIMIZE OPEX

CONTROL WELLBORE STABILITY AND SOLIDS TRANSFERS

ELIMINATE CONVENTIONAL GRAVEL-PACK SYSTEMS

FIELD-PROVEN RESULTS WORLDWIDE 495.289 Feet Run Downhole 864 Global Installations 25+ Year Record mestil (North America Europe/Azerbaijan 118 Installations 24 Installations 104.947 ft 5.183 ft Middle East/North Africa Latin America 93 Installations 18 Installations 72,545 ft 12.296 ft Sub Saharan Africa Asian Pacific 317 Installations 296 Installations 155.596 ft 144.722 ft



STREAMLINE DEPLOYMENTS



INCREASE PRODUCTIVITY



REDUCE CARBON FOOTPRINT

Simplified installation technology reduces rig days, saves OPEX, and starts producing faster. Advanced deployment efficiencies reduce installation costs to achieve greater, faster ROIs. Save on fewer personnel requirements and surface-equipment needs such as pumping units, mixers, and high-pressure lines.

Fast and efficient installation

requires only standard rig equipment, saving CAPEX and OPEX by reducing rig time and enhancing uptime.

Exclusive design applicable to a wide range of applications and features a high surface area inflow filter for maximized sand retention.

Expandable zonal isolation

joints can be included to packoff the wellbore annulus, providing reliable, openhole isolation across multiple payzones. Compliant wellbore contact delivers sand retention, performance reliability, and bottom-line results. The screen-to-wellbore contact provides a low skin completion, superior productivity index, and minimum required drawdown for enhanced production and faster ROI.

Expansion eliminates the annulus

and supports the load-bearing sand grains to form a stable arch for reliable sand control and prevention of failed mud cake and reservoir sand mixing at the screen surface.

Expanded screen inner diameter provides increased flow area while reducing flowing friction pressures that contribute to gas/ water coning affects.

Large, expanded base pipe inflow area provides direct access to filter media, enabling filter cake treatment and efficient near wellbore cleanup. Enhanced efficiencies reduce rig days, producing less CO₂ emissions. Radialexpansion technology eliminates conventional gravel-pack filtration and its associated surface equipment—reducing carbon emissions and related HSE risks.

Well site mobilization

of expandable sand screen completion configurations is logistically simple and straight forward. Reducing the associated carbon footprint and is well suited to remote location requirements.

Efficient operations improve safety by removing highpressure lines, heavy lifting, and hazardous machinery required by conventional systems.



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